

Connecting via Winsock to STN

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	May 12	EXTEND option available in structure searching
NEWS	4	May 12	Polymer links for the POLYLINK command completed in REGISTRY
NEWS	5	May 27	New UPM (Update Code Maximum) field for more efficient patent SDIs in Cplus
NEWS	6	May 27	Cplus super roles and document types searchable in REGISTRY
NEWS	7	Jun 28	Additional enzyme-catalyzed reactions added to CASREACT
NEWS	8	Jun 28	ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG, and WATER from CSA now available on STN(R)
NEWS	9	Jul 12	BEILSTEIN enhanced with new display and select options, resulting in a closer connection to BABS
NEWS	10	Jul 30	BEILSTEIN on STN workshop to be held August 24 in conjunction with the 228th ACS National Meeting
NEWS	11	AUG 02	IFIPAT/IFIUDB/IFICDB reloaded with new search and display fields
NEWS	12	AUG 02	Cplus and CA patent records enhanced with European and Japan Patent Office Classifications
NEWS	13	AUG 02	STN User Update to be held August 22 in conjunction with the 228th ACS National Meeting
NEWS	14	AUG 02	The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available
NEWS	15	AUG 04	Pricing for the Save Answers for SciFinder Wizard within STN Express with Discover! will change September 1, 2004
NEWS EXPRESS		JULY 30	CURRENT WINDOWS VERSION IS V7.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS INTER			General Internet Information
NEWS LOGIN			Welcome Banner and News Items
NEWS PHONE			Direct Dial and Telecommunication Network Access to STN
NEWS WWW			CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:49:46 ON 06 AUG 2004

=> file reg

FILE 'REGISTRY' ENTERED AT 15:50:04 ON 06 AUG 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 4 AUG 2004 HIGHEST RN 722454-60-6

DICTIONARY FILE UPDATES: 4 AUG 2004 HIGHEST RN 722454-60-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

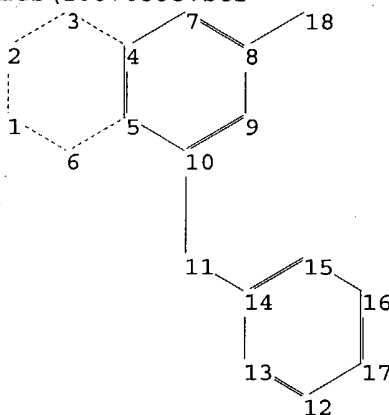
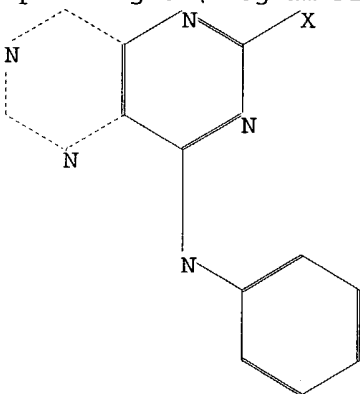
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10670535.str



chain nodes :

11 18

ring nodes :

1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17

chain bonds :

8-18 10-11 11-14

ring bonds :

1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-10 7-8 8-9 9-10 12-13 12-17 13-14 14-15
15-16 16-17

exact/norm bonds :

1-2 1-6 2-3 3-4 5-6 10-11 11-14

exact bonds :

8-18

normalized bonds :

4-5 4-7 5-10 7-8 8-9 9-10 12-13 12-17 13-14 14-15 15-16 16-17

10/670,535

Thomas McKenzie

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS

L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 15:50:23 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 13 TO ITERATE

100.0% PROCESSED 13 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 44 TO 476

PROJECTED ANSWERS: 1 TO 80

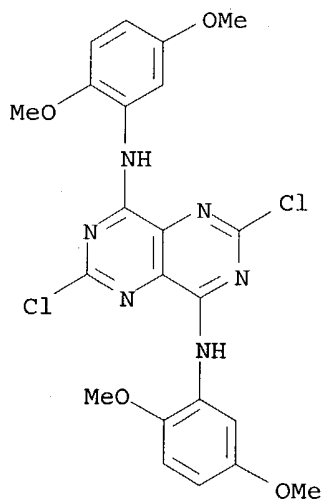
L2 1 SEA SSS SAM L1

=> d scan

L2 1 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Pyrimido[5,4-d]pyrimidine, 2,6-dichloro-4,8-bis(2,5-dimethoxyanilino)-
(7CI, 8CI)

MF C22 H20 Cl2 N6 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

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=> s l1 full

FULL SEARCH INITIATED 15:50:44 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 238 TO ITERATE

100.0% PROCESSED 238 ITERATIONS

29 ANSWERS

SEARCH TIME: 00.00.01

L3

29 SEA SSS FUL L1

=> file caold caplus, s l3; s us-6680384/pn

'S' IS AN AMBIGUOUS FILE OR CLUSTER NAME

SAFETY	- Occupational Health and Safety Cluster
SESSION	- Current files with L-numbers Cluster
STRUCTURE	- Structure Searching Cluster
SUPPLIERS	- Product Directories and Suppliers Cluster
SCISEARCH	- ISI Science Citation Index from 1974 - present
SIGLE	- Grey Literature in Europe from 1976 - present
SOLIDSTATE	- Solid State and Superconductivity Abstracts from 1981
SOLIS	- German literature in social sciences 1945-present
SPECINFO	- Spectral Database Information System
STANDARDS	- The International Standards Database
STNGUIDE	- Descriptive information about STN databases
STNMAIL	- STN Electronic Mail Service
SWETSCAN	- Swets Table of Contents from 1993 - present
SYNTHLINE	- Synthline Drug Synthesis Database 1984-present

ENTER FILE OR CLUSTER NAME (IGNORE):file reg.

'FILE' IS NOT A VALID FILE NAME

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

ENTER A FILE NAME OR (IGNORE):.

'REG.' IS NOT A VALID FILE NAME

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

ENTER A FILE NAME OR (IGNORE):.

'L3' IS NOT A VALID FILE NAME

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

ENTER A FILE NAME OR (IGNORE):.

FILE 'CAOLD' ENTERED AT 15:52:00 ON 06 AUG 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE 'CAPLUS' ENTERED AT 15:52:00 ON 06 AUG 2004

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L4

1 US-6680384/PN

=> file caold caplus; s l3; s us-6680384/pn

FILE 'CAOLD' ENTERED AT 15:52:19 ON 06 AUG 2004

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FILE 'CAPLUS' ENTERED AT 15:52:19 ON 06 AUG 2004

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L5 14 L3

L6 1 US-6680384/PN

=> s 15 not 16

L7 13 L5 NOT L6

=> sort py 17

SORT ENTIRE ANSWER SET? (Y)/N:.

2 ANSWERS DID NOT HAVE 'PY' SORT FIELD

PROCESSING COMPLETED FOR L7

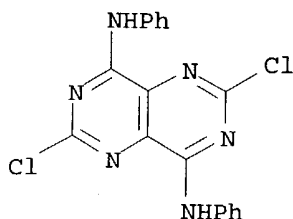
L8 13 SORT L7 PY

=> d 1-13 cbib pi hitstr

L8 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

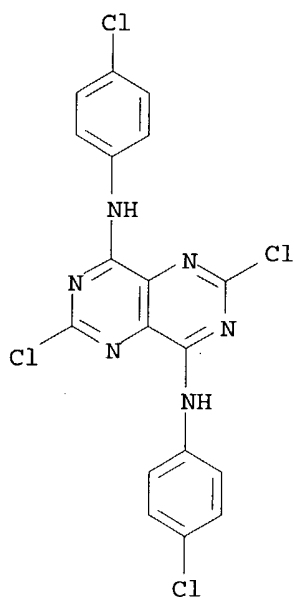
1959:67806 Document No. 53:67806 Original Reference No. 53:12317d-i,12318a-i,12319a Derivatives of pyrimido[5,4-d]pyrimidine. (Dr. Karl Thomae G. m. b. H.; Chemisch-pharmazeutische Fabrik). GB 807826 19590121 (Unavailable). APPLICATION: GB .

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 807826		19590121	GB	
IT	93819-72-8, Pyrimido[5,4-d]pyrimidine, 4,8-dianilino-2,6-dichloro-94210-50-1, Pyrimido[5,4-d]pyrimidine, 2,6-dichloro-4,8-bis(p-chloroanilino)- 94623-02-6, Pyrimido[5,4-d]pyrimidine, 4,8-di-o-anisidino-2-chloro- 94803-23-3, Pyrimido[5,4-d]pyrimidine, 2-chloro-4,8-bis(p-nitroanilino)- 95291-50-2, Pyrimido[5,4-d]pyrimidine, 2,6-dichloro-4,8-bis(p-dimethylaminoanilino)- 100574-02-5, Ethanol, 2,2'-[(2,6-dichloropyrimido[5,4-d]pyrimidine-4,8-diyl)bis(phenylimino)]di-(preparation of)				
RN	93819-72-8	CAPLUS			
CN	Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-diphenyl- (9CI) (CA INDEX NAME)				

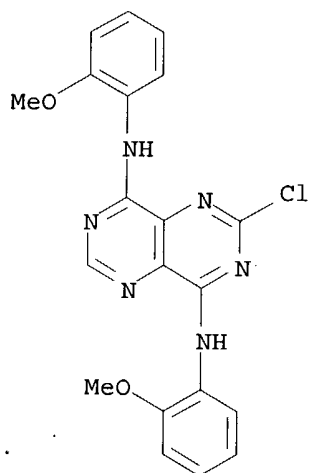


RN 94210-50-1 CAPLUS

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis(4-chlorophenyl)- (9CI) (CA INDEX NAME)

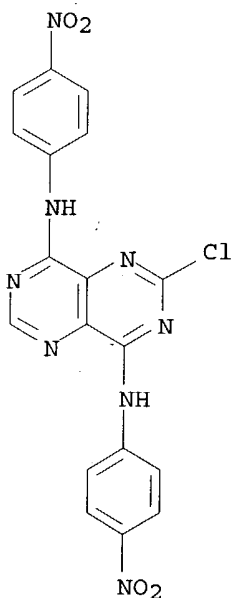


RN 94623-02-6 CAPLUS

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2-chloro-N,N'-bis(2-methoxyphenyl) -
(9CI) (CA INDEX NAME)

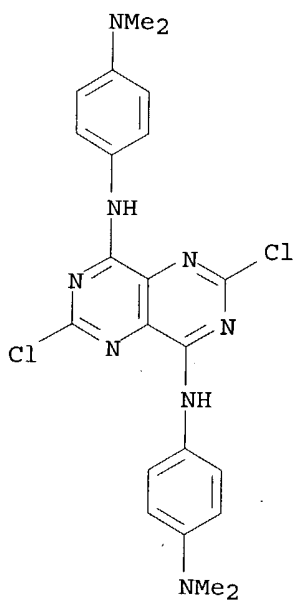
RN 94803-23-3 CAPLUS

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2-chloro-N,N'-bis(4-nitrophenyl) -
(9CI) (CA INDEX NAME)



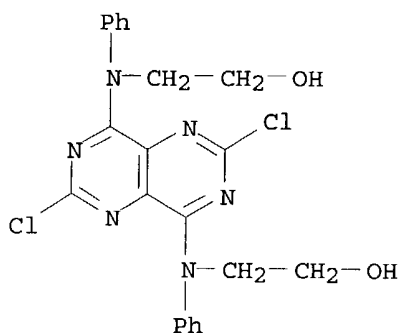
RN 95291-50-2 CAPLUS

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis[4-(dimethylamino)phenyl] - (9CI) (CA INDEX NAME)



RN 100574-02-5 CAPLUS

CN Ethanol, 2,2'-[(2,6-dichloropyrimido[5,4-d]pyrimidine-4,8-diyl)bis(phenylimino)]bis- (9CI) (CA INDEX NAME)



L8 ANSWER 2 OF 13 CAOLD COPYRIGHT 2004 ACS on STN

CA58:11378e pyrimido[5,4-d]pyrimidines. Fischer, Franz C.; Roch, J.; Kottler, A.

pyrimido[5,4-d]pyrimidines. Thomae, Dr. Karl, G.m.b.H.

Patent Info.: US 3031450 1962

PATENT NO.	KIND	DATE
US 3031450		1962

PI US 3031450 1962

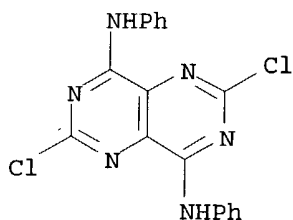
IT 93819-72-8 94210-50-1 94623-02-6

94803-23-3 95291-50-2 100574-02-5

101795-31-7

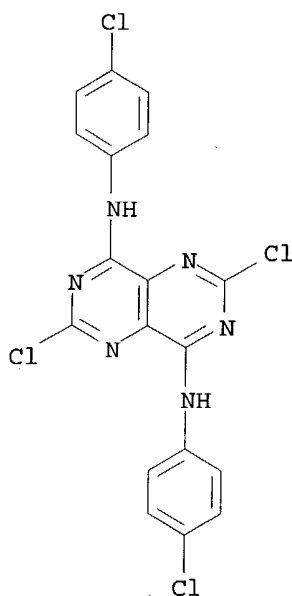
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CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-diphenyl- (9CI)
(CA INDEX NAME)

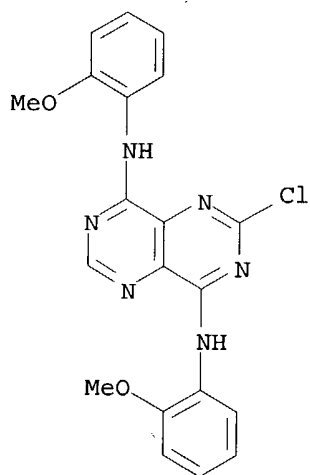


RN 94210-50-1 CAOLD

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis(4-chlorophenyl)- (9CI) (CA INDEX NAME)

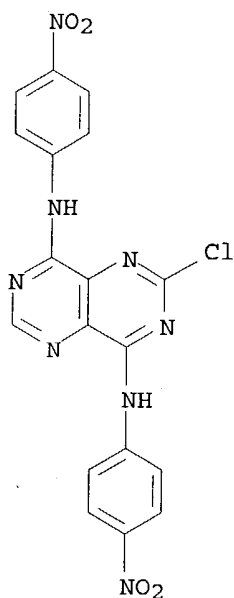


RN 94623-02-6 CAOLD

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2-chloro-N,N'-bis(2-methoxyphenyl) -
(9CI) (CA INDEX NAME)

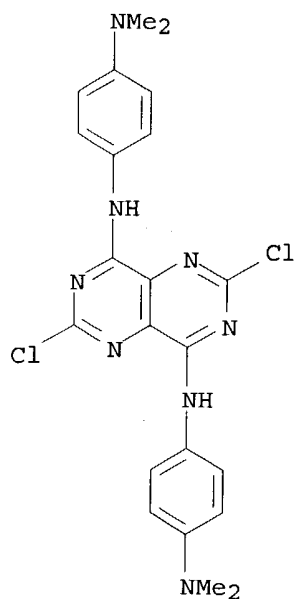
RN 94803-23-3 CAOLD

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2-chloro-N,N'-bis(4-nitrophenyl) -
(9CI) (CA INDEX NAME)



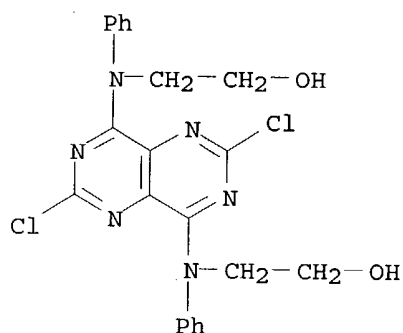
RN 95291-50-2 CAOLD

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis[4-(dimethylamino)phenyl]- (9CI) (CA INDEX NAME)



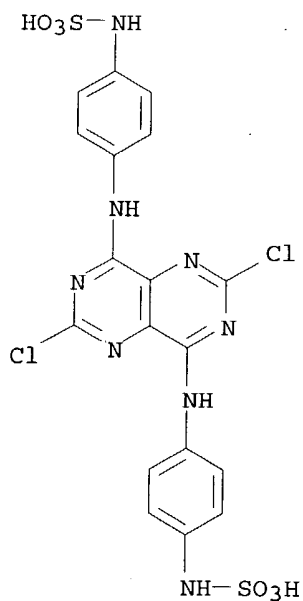
RN 100574-02-5 CAOLD

CN Ethanol, 2,2'-[(2,6-dichloropyrimido[5,4-d]pyrimidine-4,8-diyl)bis(phenylimino)]bis- (9CI) (CA INDEX NAME)



RN 101795-31-7 CAOLD

CN Sulfamic acid, [(2,6-dichloropyrimido[5,4-d]pyrimidine-4,8-diyl)bis-(imino-p-phenylene)]di- (7CI) (CA INDEX NAME)



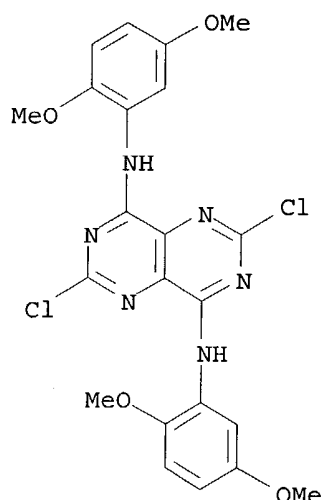
L8 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

1965:454642 Document No. 63:54642 Original Reference No. 63:9942b-d
 Pyrimido[5,4-d]pyrimidines. Giannini, M.; Bacciarelli, C. (Lab. Ric. Ist. Farm. Biol. Malesci, Florence). Bollettino Chimico Farmaceutico, 101(9), 721-7 (Italian) 1962. CODEN: BCFAAI. ISSN: 0006-6648.

IT 2829-71-2, Pyrimido[5,4-d]pyrimidine, 2,6-dichloro-4,8-bis(2,5-dimethoxyanilino)-
 (preparation of)

RN 2829-71-2 CAPLUS

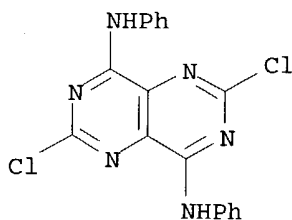
CN Pyrimido[5,4-d]pyrimidine, 2,6-dichloro-4,8-bis(2,5-dimethoxyanilino)-
 (7CI, 8CI) (CA INDEX NAME)



L8 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

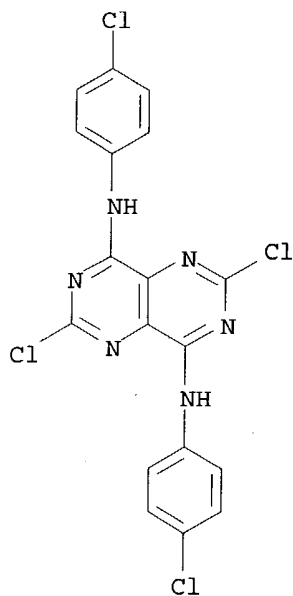
1963:66530 Document No. 58:66530 Original Reference No. 58:11378e-h,11379a-h,11380a-h,11381a-c Pyrimido[5,4-d]pyrimidines. Fischer, Franz G.; Roch, Josef; Kottler, August (Dr. Karl Thomae G.m.b.H.). US 3031450 19620424, 17 pp. (Unavailable). PRIORITY: DE 19590430.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3031450		19620424	US	
IT	93819-72-8 , Pyrimido[5,4-d]pyrimidine, 4,8-dianilino-2,6-dichloro- 94210-50-1 ; Pyrimido[5,4-d]pyrimidine, 2,6-dichloro-4,8-bis(p-chloroanilino)- 94623-02-6 , Pyrimido[5,4-d]pyrimidine, 4,8-di-o-anisidino-2-chloro- 94803-23-3 , Pyrimido[5,4-d]pyrimidine, 2-chloro-4,8-bis(p-nitroanilino)- 95291-50-2 , Pyrimido[5,4-d]pyrimidine, 2,6-dichloro-4,8-bis[p-(dimethylamino)anilino]- 100574-02-5 , Ethanol, 2,2'-[(2,6-dichloropyrimido[5,4-d]pyrimidine-4,8-diyl)bis(phenylimino)]di- 101795-31-7 , Sulfamic acid, [(2,6-dichloropyrimido[5,4-d]pyrimidine-4,8-diyl)bis(imino-p-phenylene)]di-(preparation of)				
RN	93819-72-8 CAPLUS				
CN	Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-diphenyl- (9CI) (CA INDEX NAME)				

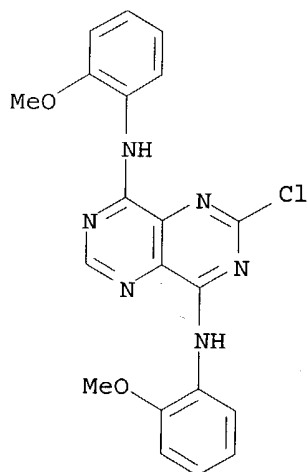


RN 94210-50-1 CAPLUS

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis(4-chlorophenyl)- (9CI) (CA INDEX NAME)

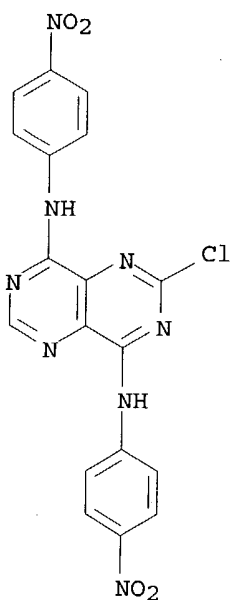


RN 94623-02-6 CAPLUS

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2-chloro-N,N'-bis(2-methoxyphenyl)-
(9CI) (CA INDEX NAME)

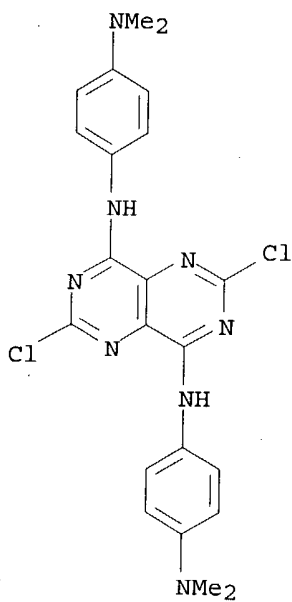
RN 94803-23-3 CAPLUS

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2-chloro-N,N'-bis(4-nitrophenyl)-
(9CI) (CA INDEX NAME)



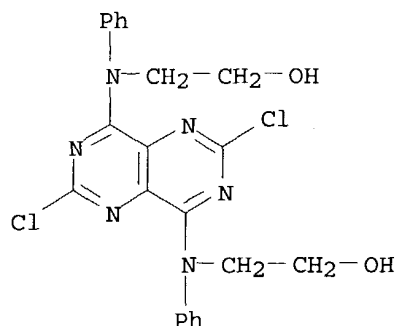
RN 95291-50-2 CAPLUS

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis[4-(dimethylamino)phenyl]- (9CI) (CA INDEX NAME)



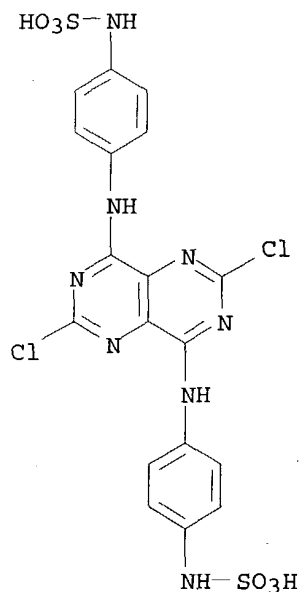
RN 100574-02-5 CAPLUS

CN Ethanol, 2,2'-[(2,6-dichloropyrimido[5,4-d]pyrimidine-4,8-diyl)bis(phenylimino)]bis- (9CI) (CA INDEX NAME)



RN 101795-31-7 CAPLUS

CN Sulfamic acid, [(2,6-dichloropyrimido[5,4-d]pyrimidine-4,8-diyl)bis-(imino-p-phenylene)]di- (7CI) (CA INDEX NAME)



L8 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

1969:404488 Document No. 71:4488 Reactive dyes. V. Reactive dyes derived from 2,4,6,8-tetrachloropyrimido[5,4-d]pyrimidine. Iida, Hiroko; Tsukada, Masashi; Iida, Hirotada (Govt. Chem. Ind. Res. Inst., Tokyo, Japan). Kogyo Kagaku Zasshi, 71(12), 2033-7 (Japanese) 1968. CODEN: KGKZA7. ISSN: 0368-5462.

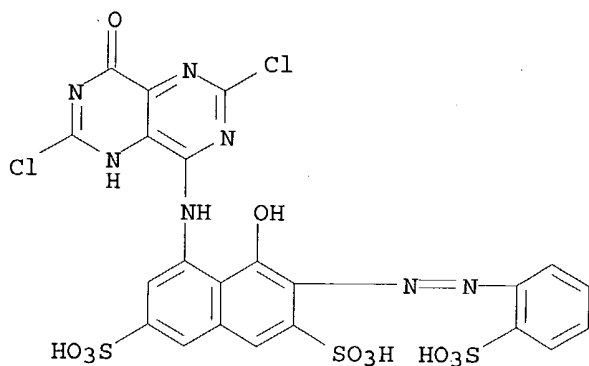
IT 23222-98-2P 23222-99-3P 23223-00-9P

23223-01-0P 23223-02-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 23222-98-2 CAPLUS

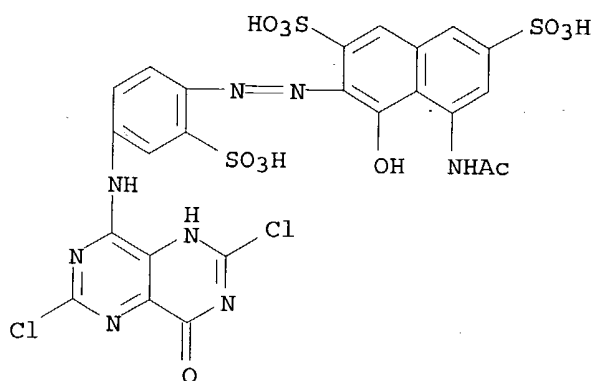
CN 2,7-Naphthalenedisulfonic acid, 5-[(2,6-dichloro-5,8-dihydro-8-oxopyrimido[5,4-d]pyrimidin-4-yl)amino]-4-hydroxy-3-[(2-sulfophenyl)azo]-, trisodium salt (9CI) (CA INDEX NAME)



● 3 Na

RN 23222-99-3 CAPLUS

CN 2,7-Naphthalenedisulfonic acid, 5-(acetylamino)-3-[[4-[(2,6-dichloro-5,8-dihydro-8-oxopyrimido[5,4-d]pyrimidin-4-yl)amino]-2-sulfophenyl]azo]-4-hydroxy-, trisodium salt (9CI) (CA INDEX NAME)

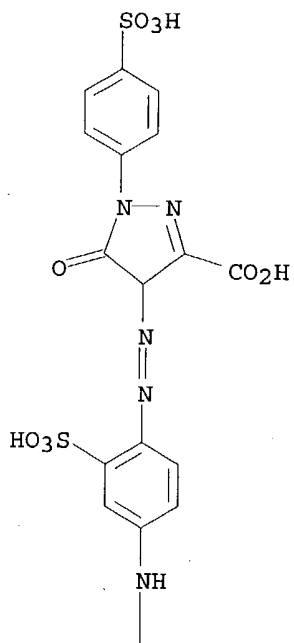


● 3 Na

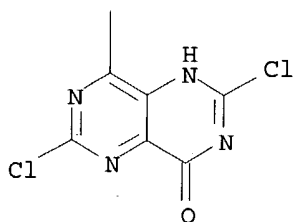
RN 23223-00-9 CAPLUS

CN 1H-Pyrazole-3-carboxylic acid, 4-[[4-[(2,6-dichloro-8-hydroxypyrimido[5,4-d]pyrimidin-4-yl)amino]-2-sulfophenyl]azo]-4,5-dihydro-5-oxo-1-(4-sulfophenyl)-, disodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

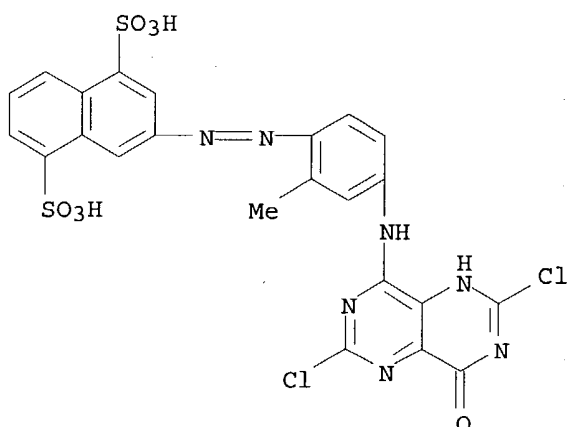


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● 2 Na

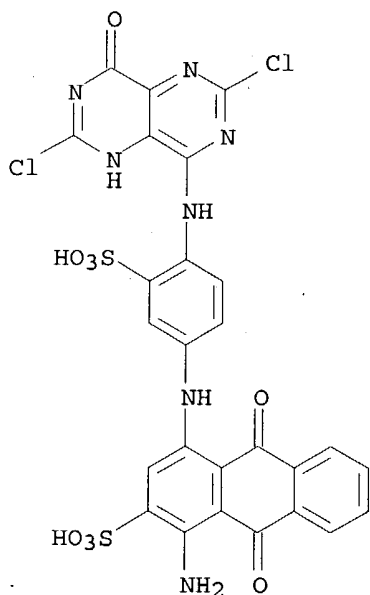
RN 23223-01-0 CAPLUS
 CN 1,5-Naphthalenedisulfonic acid, 3-[[4-[(2,6-dichloro-8-hydroxypyrimido[5,4-d]pyrimidin-4-yl)amino]-3-methylphenyl]azo]-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

RN 23223-02-1 CAPLUS

CN 2-Anthracenesulfonic acid, 1-amino-4-[[4-[(2,6-dichloro-8-hydroxypyrimido[5,4-d]pyrimidin-4-yl)amino]-3-sulfophenyl]amino]-9,10-dihydro-9,10-dioxo-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

L8 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 1972:490047 Document No. 77:90047 Water-soluble fiber-reactive dyes. Iida, Hirotsada; Iida, Hiroko (Japan, Bureau of Industrial Technology). Jpn. Tokkyo Koho JP 47008458 B4 19720310 Showa, 4 pp. (Japanese). CODEN: JAXXAD. APPLICATION: JP 1968-20023 19680329.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 47008458	B4	19720310	JP 1968-20023	19680329

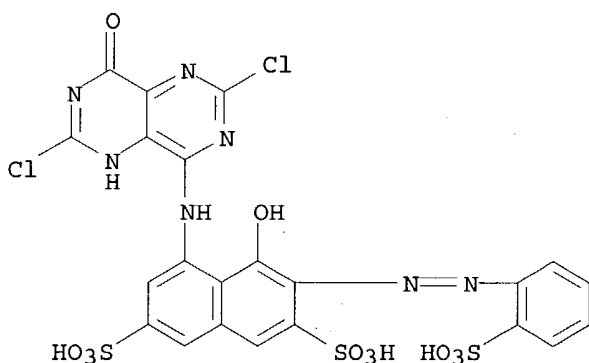
IT 23222-98-2P 23222-99-3P 23223-00-9P

23223-01-0P 23223-02-1P 38885-26-6P

RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)

RN 23222-98-2 CAPLUS

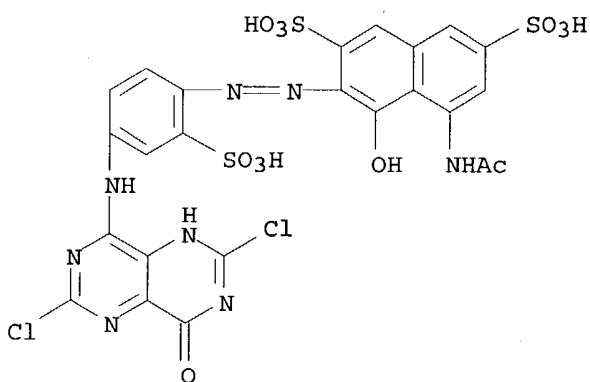
CN 2,7-Naphthalenedisulfonic acid, 5-[(2,6-dichloro-5,8-dihydro-8-oxopyrimido[5,4-d]pyrimidin-4-yl)amino]-4-hydroxy-3-[(2-sulfophenyl)azo]-, trisodium salt (9CI) (CA INDEX NAME)



●3 Na

RN 23222-99-3 CAPLUS

CN 2,7-Naphthalenedisulfonic acid, 5-(acetylamino)-3-[[4-[(2,6-dichloro-5,8-dihydro-8-oxopyrimido[5,4-d]pyrimidin-4-yl)amino]-2-sulfophenyl]azo]-4-hydroxy-, trisodium salt (9CI) (CA INDEX NAME)

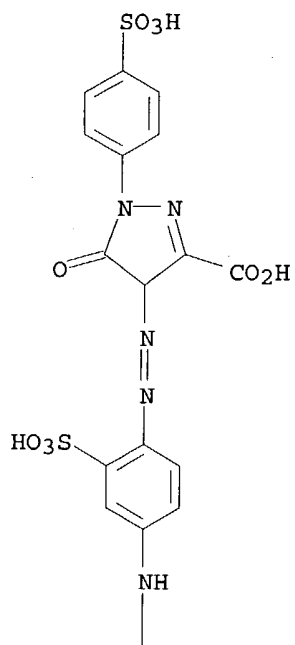


●3 Na

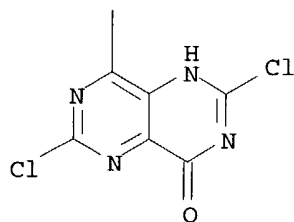
RN 23223-00-9 CAPLUS

CN 1H-Pyrazole-3-carboxylic acid, 4-[[4-[(2,6-dichloro-8-hydroxypyrimido[5,4-d]pyrimidin-4-yl)amino]-2-sulfophenyl]azo]-4,5-dihydro-5-oxo-1-(4-sulfophenyl)-, disodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

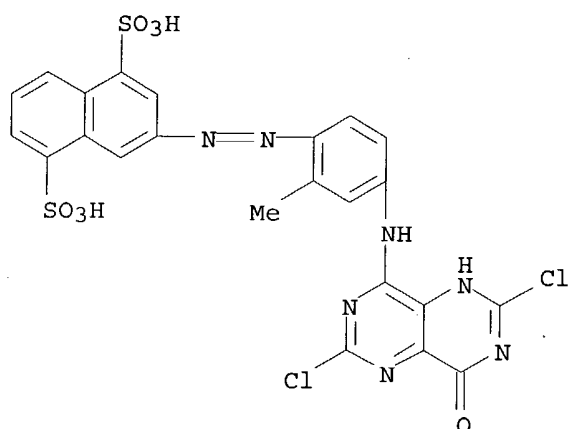


PAGE 2-A



● 2 Na

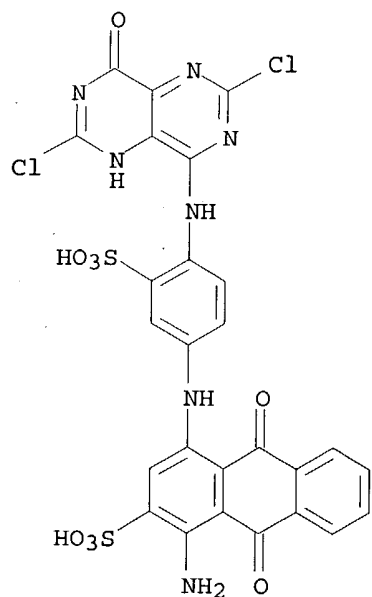
RN 23223-01-0 CAPLUS
 CN 1,5-Naphthalenedisulfonic acid, 3-[[4-[(2,6-dichloro-8-hydroxypyrimido[5,4-d]pyrimidin-4-yl)amino]-3-methylphenyl]azo]-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

RN 23223-02-1 CAPLUS

CN 2-Anthracenesulfonic acid, 1-amino-4-[[4-[(2,6-dichloro-8-hydroxypyrimido[5,4-d]pyrimidin-4-yl)amino]-3-sulfophenyl]amino]-9,10-dihydro-9,10-dioxo-, disodium salt (9CI) (CA INDEX NAME)

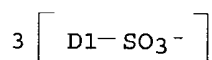
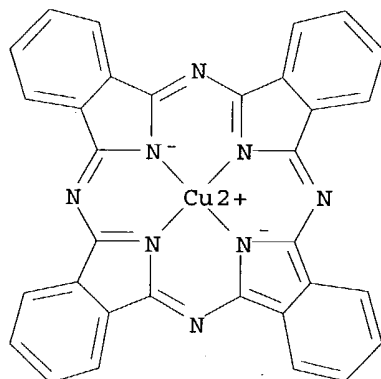


● 2 Na

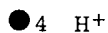
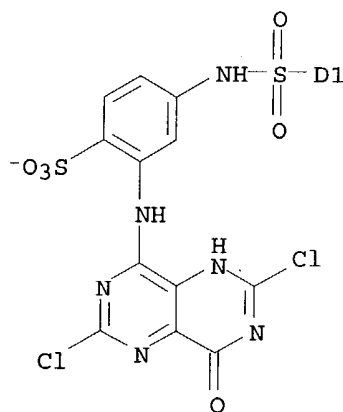
RN 38885-26-6 CAPLUS

CN Cuprate(4-), [C-[[[3-[(2,6-dichloro-8-hydroxypyrimido[5,4-d]pyrimidin-4-yl)amino]-4-sulfophenyl]amino]sulfonyl]-29H,31H-phthalocyanine-C,C,C-trisulfonato(6-)-N29,N30,N31,N32]-, tetrahydrogen (9CI) (CA INDEX NAME)

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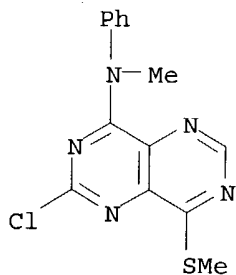
PAGE 2-A



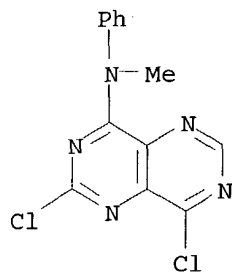
L8 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 1986:186450 Document No. 104:186450 8-(Alkylthio)-2-piperazinopyrimido[5,4-d]pyrimidines. Roch, Josef; Heckel, Armin; Nickl, Josef; Mueller, Erich; Narr, Berthold; Zimmermann, Rainer; Weisenberger, Johannes Dipl Che (Thomae, Dr. Karl, G.m.b.H., Fed. Rep. Ger.). Ger. Offen. DE 3423092 A1 19860102, 32 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1984-3423092 19840622.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI DE 3423092 A1 19860102 DE 1984-3423092 19840622
 EP 167817 A1 19860115 EP 1985-106900 19850604
 EP 167817 B1 19890920
 R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE
 AT 46511 E 19891015 AT 1985-106900 19850604
 US 4714698 A 19871222 US 1985-745095 19850617
 FI 8502445 A 19851223 FI 1985-2445 19850620
 FI 80455 B 19900228
 FI 80455 C 19900611
 NO 8502514 A 19851223 NO 1985-2514 19850621
 NO 161620 B 19890529
 NO 161620 C 19890906
 DK 8502822 A 19851223 DK 1985-2822 19850621
 AU 8543968 A1 19860102 AU 1985-43968 19850621
 AU 579869 B2 19881215
 JP 61015883 A2 19860123 JP 1985-135820 19850621
 JP 06094465 B4 19941124
 ES 544417 A1 19860201 ES 1985-544417 19850621
 ZA 8504683 A 19870225 ZA 1985-4683 19850621
 CA 1241325 A1 19880830 CA 1985-484743 19850621
 IL 75596 A1 19880930 IL 1985-75596 19850621
 IT **101850-63-9P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and aminolysis of, by piperazine)
 RN 101850-63-9 CAPLUS
 CN Pyrimido[5,4-d]pyrimidin-4-amine, 2-chloro-N-methyl-8-(methylthio)-N-
 phenyl- (9CI) (CA INDEX NAME)



IT **101850-48-0P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and thiolation of, by methanethiol)
 RN 101850-48-0 CAPLUS
 CN Pyrimido[5,4-d]pyrimidin-4-amine, 2,8-dichloro-N-methyl-N-phenyl- (9CI)
 (CA INDEX NAME)



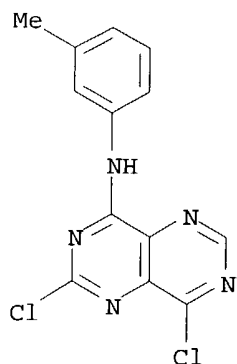
L8 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

1996:371898 Document No. 125:33669 Preparation of 4-

(phenylamino)pyrimido[5,4-d]pyrimidines as epidermal growth factor receptor antagonists. Himmelsbach, Frank; Von Rueden, Thomas; Dahmann, Georg; Metz, Thomas (Dr. Karl Thomae GmbH, Germany). PCT Int. Appl. WO

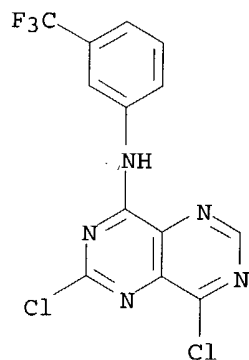
9607657 A1 19960314, 231 pp. DESIGNATED STATES: W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, MD, MG, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SK, TJ, TM, TT, UA, UG, UZ, VN; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (German). CODEN: PIXXD2. APPLICATION: WO 1995-EP3482 19950905. PRIORITY: DE 1994-4431867 19940907; DE 1995-19503151 19950201; DE 1995-19521386 19950613; DE 1995-19528672 19950804.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
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	DE 19521386	A1	19961219	DE 1995-19521386	19950613
	DE 19528672	A1	19970206	DE 1995-19528672	19950804
	AU 9535218	A1	19960327	AU 1995-35218	19950905
	AU 688972	B2	19980319		
	EP 779888	A1	19970625	EP 1995-931988	19950905
	EP 779888	B1	19990428		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
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	NO 9701038	A	19970506	NO 1997-1038	19970306
	BG 62969	B1	20001229	BG 1997-101289	19970306
	FI 9700968	A	19970506	FI 1997-968	19970307
	HK 1000837	A1	20001103	HK 1997-102471	19971217
IT	176637-03-9P 176637-04-0P 176637-11-9P 176637-89-1P 176637-90-4P				
	RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)				
	(preparation of 4-(phenylamino)pyrimido[5,4-d]pyrimidines as epidermal growth factor receptor antagonists)				
RN	176637-03-9 CAPLUS				
CN	Pyrimido[5,4-d]pyrimidin-4-amine, 2,8-dichloro-N-(3-methylphenyl)- (9CI) (CA INDEX NAME)				



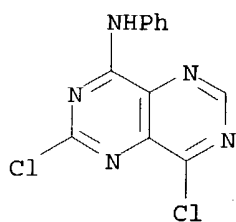
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CN Pyrimido[5,4-d]pyrimidin-4-amine, 2,8-dichloro-N-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



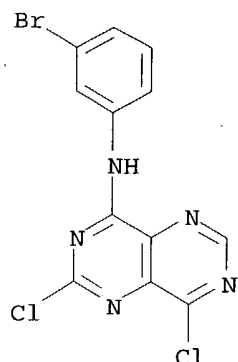
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CN Pyrimido[5,4-d]pyrimidin-4-amine, 2,8-dichloro-N-phenyl- (9CI) (CA INDEX NAME)

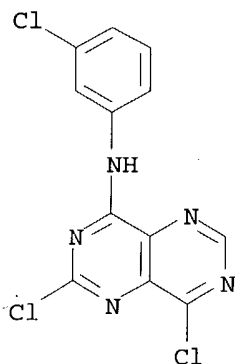


RN 176637-89-1 CAPLUS

CN Pyrimido[5,4-d]pyrimidin-4-amine, N-(3-bromophenyl)-2,8-dichloro- (9CI) (CA INDEX NAME)



RN 176637-90-4 CAPLUS

CN Pyrimido[5,4-d]pyrimidin-4-amine, 2,8-dichloro-N-(3-chlorophenyl)- (9CI)
(CA INDEX NAME)

L8 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

1996:303725 Document No. 124:343326 Preparation of substituted
4-aminopyrimido[5,4-d]pyrimidine antineoplastic agents. Himmelsbach,
Frank; Von rueden, Thomas (Dr. Karl Thomae GmbH, Germany). Ger. Offen. DE
4431867 A1 19960314, 39 pp. (German). CODEN: GWXXBX. APPLICATION: DE
1994-4431867 19940907.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 4431867	A1	19960314	DE 1994-4431867	19940907
TW 414798	B	20001211	TW 1995-84109086	19950831
CA 2199401	AA	19960304	CA 1995-2199401	19950905
WO 9607657	A1	19960314	WO 1995-EP3482	19950905
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, MD, MG, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SK, TJ, TM, TT, UA, UG, UZ, VN				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9535218	A1	19960327	AU 1995-35218	19950905
AU 688972	B2	19980319		
EP 779888	A1	19970625	EP 1995-931988	19950905
EP 779888	B1	19990428		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				

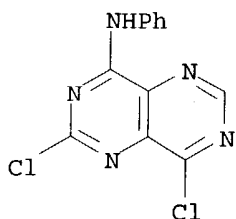
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CN 1047778	B	19991229		
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HU 77744	A2	19980728	HU 1998-482	19950905
AT 179420	E	19990515	AT 1995-931988	19950905
ES 2133800	T3	19990916	ES 1995-931988	19950905
JP 3184533	B2	20010709	JP 1996-509206	19950905
ZA 9507464	A	19970306	ZA 1995-7464	19950906
US 5707989	A	19980113	US 1995-524707	19950907
NO 9701038	A	19970506	NO 1997-1038	19970306
BG 62969	B1	20001229	BG 1997-101289	19970306
FI 9700968	A	19970506	FI 1997-968	19970307
HK 1000837	A1	20001103	HK 1997-102471	19971217

IT 176637-11-9

RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of substituted 4-aminopyrimido[5,4-d]pyrimidine antineoplastic agents)

RN 176637-11-9 CAPLUS

CN Pyrimido[5,4-d]pyrimidin-4-amine, 2,8-dichloro-N-phenyl- (9CI) (CA INDEX NAME)



IT 176637-03-9P 176637-04-0P 176637-89-1P

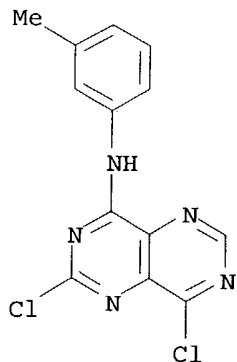
176637-90-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

(preparation of substituted 4-aminopyrimido[5,4-d]pyrimidine antineoplastic agents)

RN 176637-03-9 CAPLUS

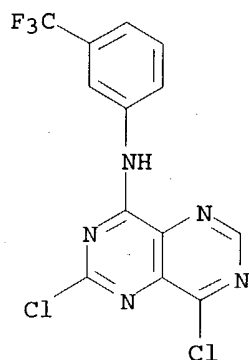
CN Pyrimido[5,4-d]pyrimidin-4-amine, 2,8-dichloro-N-(3-methylphenyl)- (9CI)
 (CA INDEX NAME)



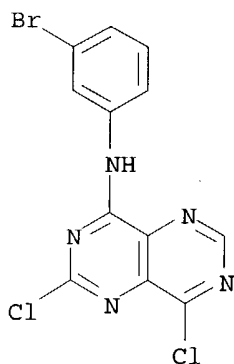
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CN Pyrimido[5,4-d]pyrimidin-4-amine, 2,8-dichloro-N-[3-

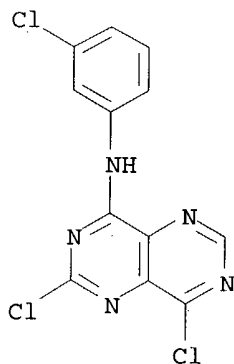
(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 176637-89-1 CAPLUS

CN Pyrimido[5,4-d]pyrimidin-4-amine, N-(3-bromophenyl)-2,8-dichloro- (9CI)
(CA INDEX NAME)

RN 176637-90-4 CAPLUS

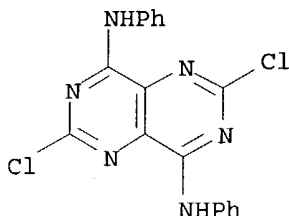
CN Pyrimido[5,4-d]pyrimidin-4-amine, 2,8-dichloro-N-(3-chlorophenyl)- (9CI)
(CA INDEX NAME)

10/670,535

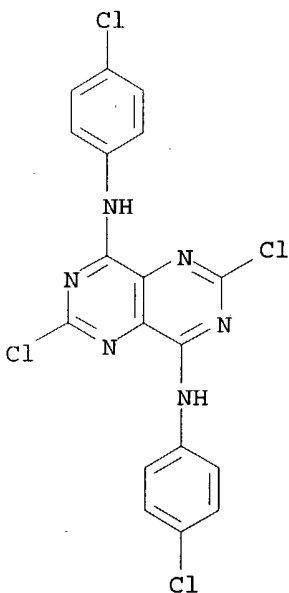
Thomas McKenzie

2001:355083 Document No. 134:353321 Pyrimido[5,4-d]pyrimidine and [(alkylsulfonyl)benzylidene]indeneacetate combinations as antitumor agents. Pamukcu, Rifat; Piazza, Gary A. (Cell Pathways, Inc., USA). U.S. US 6232312 B1 20010515, 23 pp., Cont. of U.S. Ser. No. 485,471, abandoned. (English). CODEN: USXXAM. APPLICATION: US 1998-27334 19980220. PRIORITY: US 1995-485471 19950607.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6232312	B1	20010515	US 1998-27334	19980220
IT	93819-72-8P 94210-50-1P 94623-02-6P 94803-23-3P 95291-50-2P 100574-02-5P				
RL:	BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)				
	(pyrimido[5,4-d]pyrimidine and [(alkylsulfonyl)benzylidene]indeneacetate combinations as antitumor agents)				
RN	93819-72-8 CAPLUS				
CN	Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-diphenyl- (9CI) (CA INDEX NAME)				



RN 94210-50-1 CAPLUS
CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis(4-chlorophenyl)- (9CI) (CA INDEX NAME)

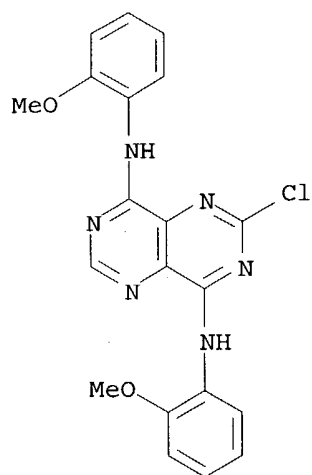


RN 94623-02-6 CAPLUS

10/670,535

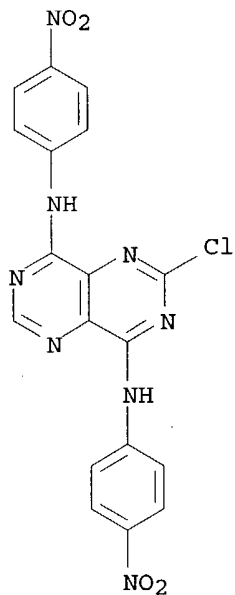
Thomas McKenzie

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2-chloro-N,N'-bis(2-methoxyphenyl)-
(9CI) (CA INDEX NAME)



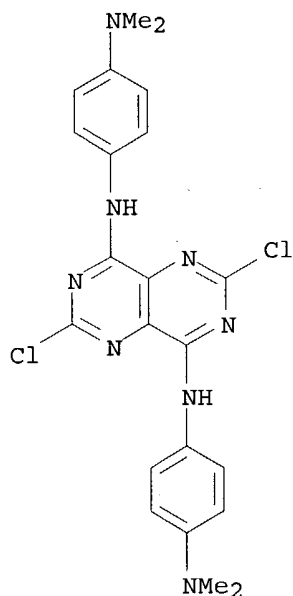
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CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2-chloro-N,N'-bis(4-nitrophenyl)-
(9CI) (CA INDEX NAME)



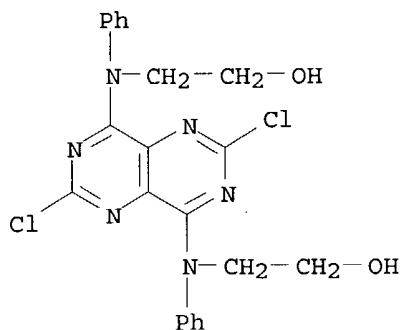
RN 95291-50-2 CAPLUS

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis[4-(dimethylamino)phenyl]- (9CI) (CA INDEX NAME)



RN 100574-02-5 CAPLUS

CN Ethanol, 2,2'-[(2,6-dichloropyrimido[5,4-d]pyrimidine-4,8-diyl)bis(phenylimino)]bis- (9CI) (CA INDEX NAME)



L8 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

2002:71100 Document No. 136:355098 Controlled stepwise conversion of 2,4,6,8-tetrachloropyrimido[5,4-d]pyrimidine into 2,4,6,8-tetrasubstituted pyrimido[5,4-d]pyrimidines. Northen, Julian S.; Boyle, F. Thomas; Clegg, William; Curtin, Nicola J.; Edwards, Andrew J.; Griffin, Roger J.; Golding, Bernard T. (Department of Chemistry, University of Newcastle upon Tyne, Newcastle upon Tyne, NE1 7RU, UK). Journal of the Chemical Society, Perkin Transactions 1 (1), 108-115 (English) 2002. CODEN: JCSPCE. ISSN: 1472-7781. OTHER SOURCES: CASREACT 136:355098. Publisher: Royal Society of Chemistry.

IT 419574-98-4P 419575-06-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

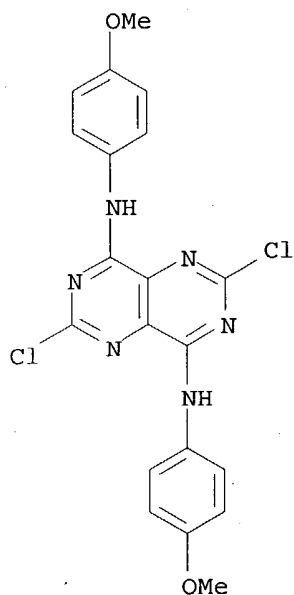
(controlled stepwise conversion of 2,4,6,8-tetrachloropyrimido[5,4-d]pyrimidine into 2,4,6,8-tetrasubstituted pyrimido[5,4-d]pyrimidines)

RN 419574-98-4 CAPLUS

10/670,535

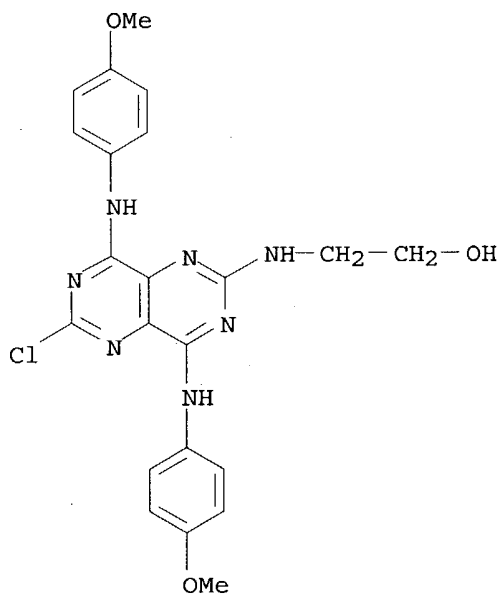
Thomas McKenzie

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 419575-06-7 CAPLUS

CN Ethanol, 2-[[[6-chloro-4,8-bis[(4-methoxyphenyl)amino]pyrimido[5,4-d]pyrimidin-2-yl]amino]- (9CI) (CA INDEX NAME)



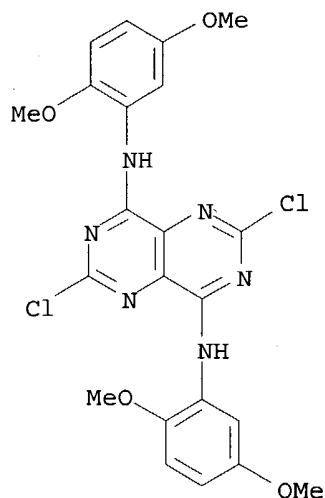
L8 ANSWER 12 OF 13 CAOLD COPYRIGHT 2004 ACS on STN

CA63:9942b pyrimido[5,4,d]primidines. Giannini, Mario; Bacciarelli, C.

IT 2829-71-2

RN 2829-71-2 CAOLD

CN Pyrimido[5,4-d]pyrimidine, 2,6-dichloro-4,8-bis(2,5-dimethoxyanilino)-
(7CI, 8CI) (CA INDEX NAME)



L8 ANSWER 13 OF 13 CAOLD COPYRIGHT 2004 ACS on STN

CA53:12317d pyrimido 5,4-d pyrimidine derivs.. Thomae, Dr. Karl, G. m. b. H.

Patent Info.: GB 807826; GB 808826; DE 1116676

PATENT NO.	KIND	DATE
GB 807826		
GB 808826		
DE 1116676		
93819-72-8	94210-50-1	94623-02-6
94803-23-3	95291-50-2	100574-02-5

PI GB 807826

PI GB 808826

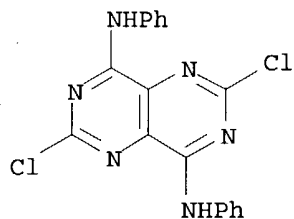
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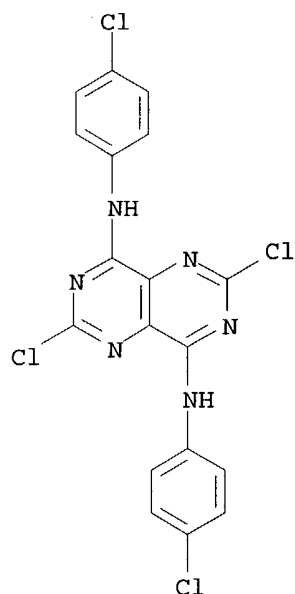
RN 93819-72-8 CAOLD

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-diphenyl- (9CI)
(CA INDEX NAME)

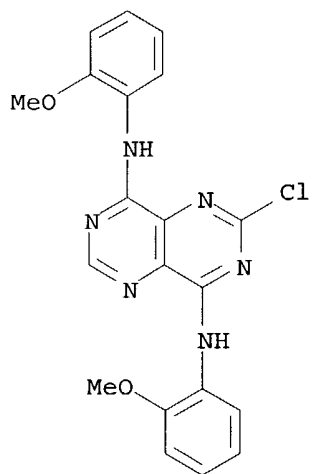


RN 94210-50-1 CAOLD

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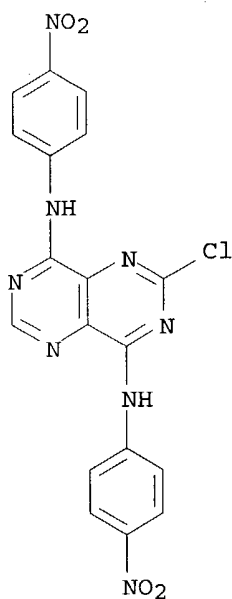


RN 94623-02-6 CAOLD

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2-chloro-N,N'-bis(2-methoxyphenyl)-
(9CI) (CA INDEX NAME)

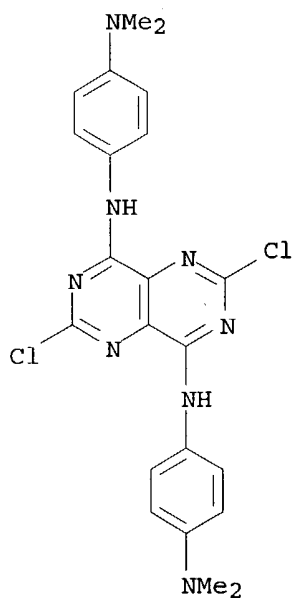
RN 94803-23-3 CAOLD

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2-chloro-N,N'-bis(4-nitrophenyl)-
(9CI) (CA INDEX NAME)



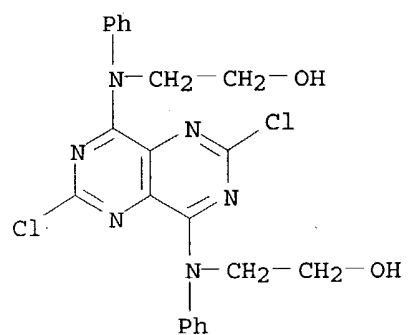
RN 95291-50-2 CAOLD

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis[4-(dimethylamino)phenyl]- (9CI) (CA INDEX NAME)



RN 100574-02-5 CAOLD

CN Ethanol, 2,2'-[(2,6-dichloropyrimido[5,4-d]pyrimidine-4,8-diyl)bis(phenylimino)]bis- (9CI) (CA INDEX NAME)



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LOGOFF? (Y)/N/HOLD:.

STN INTERNATIONAL LOGOFF AT 15:55:33 ON 06 AUG 2004

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1	196	(544/256).CCLS.	USPAT; US-PGPUB	2004/08/06 15:30
2	6	((544/256).CCLS.) AND "[5,4-d]"	USPAT; US-PGPUB	2004/08/06 15:32
3	5	((544/256).CCLS.) AND "[5,4-d]pyrimidine"	USPAT; US-PGPUB	2004/08/06 15:32
4	10	(((544/256).CCLS.) AND "[5,4-d]") (((544/256).CCLS.) AND "[5,4-d]pyrimidine")	USPAT; US-PGPUB	2004/08/06 15:32

Day :
Friday
Date:
8/6/2004
Time:
15:34:21

 **PALM INTRANET**

Inventor Information for 10/670535

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BELZER, WERNER	ST. GOAR	GERMANY
LOCK, RALF	MAINZ	GERMANY
RALL, WERNER	MITTELBIBERACH	GERMANY

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